



Course: Materials for Biomedical applications		
POSTGRADO: MÁSTER IN MATERIALS SCIENCE AND TECNOLOGY Profesor/a: Elisa M^a Ruiz	ECTS:3	SEMESTRE: 2

CRONOGRAMA DE LA ASIGNATURA (versión detallada)								
SEMANA	SESIÓN	DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN	GRUPO (marcar X)		Indicar espacio Necesario distinto aula (aula informática, audiovisual, etc..)	TRABAJO DEL ALUMNO DURANTE LA SEMANA		
			1	2		DESCRIPCIÓN	HORAS PRESENCIALES	HORAS TRABAJO Semana Máximo 7 H
1	1	Introduction to the course	x			Study and preparation of the following session with the recommended bibliography	1.5	4
1	2	Topic 1. Introduction to Biomaterials and Biological Materials.	x			Study and preparation of the following session with the recommended bibliography	1.5	4
2	3	Topic 2. Biological Response and biocompatibility..	x			Study and preparation of the following session with the recommended bibliography	1.5	4
2	4	Topic 3. Testing of biocompatibility, cytotoxicity and cytocompatibility. Laboratory		x	Laboratory	Laboratory assistance Writing Report	1.5	5



3	5	Topic 3. Testing of biocompatibility, cytotoxicity and cytocompatibility. Laboratory		x	Laboratory	Laboratory assistance Writing Report	1.5	5
3	6	Topic 4. Hard and soft Biomaterials (Tissue Engineering).	x			Study and preparation of the following session with the recommended bibliography	1.5	4
4	7	Topic 5. Metallic Biomaterials. Properties and main applications	x			Study and preparation of the following session with the recommended bibliography	1.5	4
4	8	Topic 5. Metallic Biomaterials. Properties and main applications	x			Study and preparation of the following session with the recommended bibliography	1.5	4
5	9	Topic 6. Polymeric Biomaterials. Properties and main applications	x			Study and preparation of the following session with the recommended bibliography	1.5	4
5	10	Topic 7. Ceramic Biomaterials. Properties and main applications	x			Study and preparation of the following session with the recommended bibliography	1.5	4
6	11	Topic 8. Biomaterials and Health Sciences: Biomaterials for bone regeneration Topic 8 Biomaterials and Health Sciences: Materials for	x			Study and preparation of the following session with the	1.5	4



		gene transfer				recommended bibliography		
6	12	Topic 8. Biomaterials and health sciences: Composite Materials with antibacterial properties	x			Study and preparation of the following session with the recommended bibliography	1.5	4
TOTAL HOURS							18	50